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APPENDIX

IUPAC Publications on Nomenclature and Symbolism

1.0 Compilations

1.1 Nomenclature of Organic Chemistry, a 550-page hardcover volume published in 1979, available from Pergamon, Oxford.

Section A: Hydrocarbons
Section B: Fundamental heterocyclic systems
Section C: Characteristic groups containing carbon, hydrogen, oxygen, nitrogen, halogen, sulphur, selenium, and tellurium
Section D: Organic compounds containing elements not exclusively those referred to in the title of Section C
Section E: Stereochemistry
Section F: General principles for the naming of natural products and related compounds
Section H: Isotopically modified compounds

1.2 Nomenclature of Inorganic Chemistry, a 278-page hardcover volume published in 1989, available from Blackwell Scientific Publications, Oxford.

Chapter 1: General aims, functions and methods
Chapter 2: Grammar
Chapter 3: Elements, atoms, and groups
Chapter 4: Formulae
Chapter 5: Names based on stoichiometry
Chapter 6: Neutral molecular compounds
Chapter 7: Names for ions, substituent groups and radicals, and salts
Chapter 8: Oxoacids and derived anions
Chapter 9: Co-ordination compounds
Chapter 10: Boron hydrides and related compounds

1.3 Biochemical Nomenclature and Related Documents, a 220-page softcover manual published in 1978 by The Biochemical Society for IUB, and available from the Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester, Essex CO2 8HP. The contents are as follows:

General
Nomenclature of organic chemistry. Section E: Stereochemistry (1974)
Nomenclature of organic chemistry. Section F: Natural products and related compounds (1976)
Nomenclature of organic chemistry. Section H: Isotopically modified compounds (1977)
Isotopically labelled compounds: common biochemical practice
Recommendations for measurement and presentation of biochemical equilibrium data (1976)
Abbreviations and symbols for chemical names of special interest in biological chemistry (1965)
Abbreviations and symbols: a compilation (1976)
Citation of bibliographic references in biochemical journals (1971)
Amino acids, peptides and proteins
Nomenclature of α-amino acids (1974)
Symbols for amino-acid derivatives and peptides (1971)
Rules for naming synthetic modifications of natural peptides (1966)
Abbreviated nomenclature of synthetic polypeptides or polymerized amino acids (1971)
A one-letter notation for amino-acid sequences (1968)
Abbreviations and symbols for the description of the conformation of polypeptide chains (1969)
Nomenclature of peptide hormones (1974)
Recommendations for the nomenclature of human immunoglobulins
Protein data bank. A computer-based archival file for macromolecular structures (1977)
Nomenclature of multiple forms of enzymes (1976)
Nucleotides and nucleic acids
Abbreviations and symbols for nucleic acids, polynucleotides and their constituents (1970)
Lipids
Nomenclature of lipids (1976)

Nomenclature of steroids (1967)
Nomenclature of quinones with isoprenoid side chains (1973)
Tentative rules for the nomenclature of carotenoids (1970). Amendments (1974)
Nomenclature of tocopherols and related compounds (1973)
Carbohydrates, etc.
Tentative rules for carbohydrate nomenclature. Part 1 (1969)
Nomenclature of cyclitols (1973)
Phosphorus-containing compounds
Nomenclature of phosphorus-containing compounds of biochemical importance (1976)
Miscellaneous
Trivial names of miscellaneous compounds of importance in biochemistry (1965)
Nomenclature and symbols for folic acids and related compounds (1965)
Nomenclature for vitamins B-6 and related compounds (1973)
Nomenclature of corrinoids (1973)

1.4 Compendium of Analytical Nomenclature, a 280-page hardcover volume published in 1987, available from Blackwell Scientific Publications, Oxford. The contents are as follows:

Presentation of the Results of Chemical Analysis
Solution Thermodynamics (activity coefficients, equilibria, pH)
Recommendations for Terminology to be used with Precision Balances
Recommendations for Nomenclature of Thermal Analysis
Recommendations for Nomenclature of Titrimetric Analysis
Electrochemical Analysis
Analytical Separation Processes (precipitation, liquid-liquid distribution, zone melting and fractional crystallization, chromatography, ion exchange)
Spectrochemical Analysis (radiation sources, general

atomic emission spectroscopy, flame spectroscopy, *X*-ray emission spectroscopy, molecular methods)
Recommendations for Nomenclature of Mass Spectrometry
Recommendations for Nomenclature of Radiochemical Methods
Surface Analysis (including photoelectron spectroscopy)

1.5 Compendium of Chemical Terminology: IUPAC Recommendations, a 456-page volume published in 1987, available in hardcover and softcover from Blackwell Scientific Publications, Oxford.

1.6 Quantities, Units, and Symbols in Physical Chemistry, a 134-page hardcover volume published in 1988, available from Blackwell Scientific Publications, Oxford.

2.0 Documents not included in the compilations

2.1 Nomenclature of Elements and Compounds

2.1.1 *Amino acids and Peptides*
Nomenclature and symbolism for amino acids and peptides (*Pure Appl. Chem.*, 1984, **56**, 595; *Eur. J. Biochem.*, 1984, **138**, 9).

2.1.2 *Analytical Reagents*
Guide to trivial names, trade names, and synonyms for substances used in analytical chemistry (*Pure Appl. Chem.*, 1978, **50**, 339).

2.1.3 *Boron Compounds*
Nomenclature of inorganic boron compounds (*Pure Appl. Chem.*, 1972, **30**, 681).

2.1.4 *Carbohydrates*
Conformational nomenclature for five- and six-membered ring forms of monosaccharides and their derivatives (provisional) (*Pure Appl. Chem.*, 1981, **53**, 1901; *Eur. J. Biochem.*, 1980, **111**, 295).
Abbreviated terminology of oligosaccharide chains (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1517; *J. Biol. Chem.*, 1982, **257**, 2347).
Polysaccharide nomenclature (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1523; *J. Biol. Chem.*, 1982, **257**, 3352).
Nomenclature of unsaturated monosaccharides (provisional) (*Pure Appl. Chem.*, 1982, **54**, 207; *Eur. J. Biochem.*, 1981, **119**, 1; errata *Eur. J. Biochem.*, 1982, **125**, 1).
Nomenclature of branched-chain monosaccharides (provisional) (*Pure Appl. Chem.*, 1982, **54**, 211; *Eur. J. Biochem.*, 1981, **119**, 5; errata *Eur. J. Biochem.*, 1982, **125**, 1).
Symbols for specifying the conformation of polysaccharide chains (provisional) (*Pure Appl. Chem.*, 1983, **55**, 1269; *Eur. J. Biochem.*, 1983, **131**, 5).

2.1.5 *Delta Convention*
Nomenclature for cyclic organic compounds with contiguous formal double bonds (*Pure Appl. Chem.*, 1988, **60**, 1395).

2.1.6 *Elements*
Recommendations for the names of elements of atomic number greater than 100 (*Pure Appl. Chem.*, 1979, **51**, 381).

2.1.7 *Enzymes*
Enzyme Nomenclature (1984), published by Academic Press in hardcover and softcover editions.

2.1.8 *Folic Acid*
Nomenclature and symbols for folic acid and related compounds (*Pure Appl. Chem.*, 1987, **59**, 833; *Eur. J. Biochem.*, 1987, **168**, 251).

2.1.9 *Glycoproteins*
Nomenclature of glycoproteins, glycopeptides, and peptidoglycans (*Pure Appl. Chem.*, 1988, **60**, 1389).

2.1.10 *Heterocyclic Compounds*
Revision of the extended Hantzsch-Widman system of nomenclature for heteromonocycles (*Pure Appl. Chem.*, 1983, **55**, 409).

2.1.11 *Hydrogen*
Names for hydrogen atoms, ions, and groups, and for reactions involving them (*Pure Appl. Chem.*, 1988, **60**, 1115).

2.1.12 *Isotopically Modified Compounds*
Nomenclature of inorganic chemistry. Part II. 1. Isotopically modified compounds (*Pure Appl. Chem.*, 1981, **53**, 1887).

2.1.13 *Lambda Convention*
Treatment of variable valence in organic nomenclature (*Pure Appl. Chem.*, 1984, **56**, 769).

2.1.14 *Nitrogen Hydrides*
Nomenclature of hydrides of nitrogen and derived cations, anions, and ligands (*Pure Appl. Chem.*, 1982, **54**, 2545).

2.1.15 *Nucleotides*
Abbreviations and symbols for the description of conformations of polynucleotide chains (provisional) (*Pure Appl. Chem.*, 1983, **55**, 1279; *Eur. J. Biochem.*, 1983, **131**, 9).

2.1.16 *Numerical Terms*
Extension of Rules A-1.1 and A-2.5 concerning numerical terms used in organic chemical nomenclature (*Pure Appl. Chem.*, 1986, **58**, 1693).

2.1.17 *Polymers*
Nomenclature of regular single-strand organic polymers (*Pure Appl. Chem.*, 1976, **48**, 373).
Nomenclature for regular single-strand and quasi single-strand inorganic and co-ordination polymers (*Pure Appl. Chem.*, 1985, **57**, 149).
Source-based nomenclature for copolymers (*Pure Appl. Chem.*, 1985, **57**, 1427).
Stereochemical definitions and notations relating to polymers (*Pure Appl. Chem.*, 1981, **53**, 733).
Use of abbreviations for names of polymeric substances (*Pure Appl. Chem.*, 1987, **59**, 691).
Basic definitions of terms relating to polymers (*Pure Appl. Chem.*, 1974, **40**, 477).
Definitions of terms relating to individual macromolecules, their assemblies, and dilute polymer solutions (*Pure Appl. Chem.*, 1989, **61**, 211).
A classification of linear single-strand polymers (*Pure Appl. Chem.*, 1989, **61**, 243).
Definition of terms relating to crystalline polymers (*Pure Appl. Chem.*, 1989, **61**, 769).

2.1.18 *Polyanions*
Nomenclature of polyanions (*Pure Appl. Chem.*, 1987, **59**, 1529).

2.1.19 *Prenols*
Nomenclature of prenols (*Pure Appl. Chem.*, 1987, **59**, 683; *Eur. J. Biochem.*, 1987, **167**, 181).

2.1.20 *Retinoids*
Nomenclature of retinoids (provisional) (*Pure Appl. Chem.*, 1983, **55**, 721; *Eur. J. Biochem.*, 1982, **129**, 1).

2.1.21 *Tetrapyrroles*
Nomenclature of tetrapyrroles (*Pure Appl. Chem.*, 1987, **59**, 779).

2.1.22 *Tocopherols*
Nomenclature of tocopherols and related compounds (*Pure Appl. Chem.*, 1982, **54**, 1507; *Eur. J. Biochem.*, 1982, **123**, 473).

2.1.23 *Vitamins*
Nomenclature of Vitamin D (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1511; *Eur. J. Biochem.*, 1982, **124**, 223).

2.1.24 *Zeolites*

Chemical nomenclature and formulation of compositions of synthetic and natural zeolites (*Pure Appl. Chem.*, 1979, **51**, 1091).

2.2 Terminology, Symbols, and Units, and Presentation of Results

2.2.1 *General*

Glossary of terms used in physical organic chemistry (*Pure Appl. Chem.*, 1983, **55**, 1281).

2.2.2 *Analytical*

Nomenclature, symbols, units, and their usage in spectrochemical analysis. Part VII, Molecular absorption spectroscopy, u.v. and visible (*Pure Appl. Chem.*, 1988, **60**, 1449). Part X, Preparation of materials for analytical atomic spectroscopy (*Pure Appl. Chem.*, 1988, **60**, 1461).

Recommendations for publication of papers on a new analytical method based on ion exchange or ion-exchange chromatography (*Pure Appl. Chem.*, 1980, **52**, 2555).

Recommendations for presentation of data on complexiметric indicators. 1. General (*Pure Appl. Chem.*, 1979, **51**, 1357).

Recommendations for publishing manuscripts on ion-selective electrodes (*Pure Appl. Chem.*, 1981, **53**, 1907).

Recommendations on use of the term amplification reactions (*Pure Appl. Chem.*, 1982, **54**, 2553).

Recommendations for the usage of selective, selectivity, and related terms in analytical chemistry (*Pure Appl. Chem.*, 1983, **55**, 553).

Nomenclature for automated and mechanised analysis (*Pure Appl. Chem.*, 1989, **61**, 1657).

2.2.3 *Clinical*

Physicochemical quantities and units in clinical chemistry with special emphasis on activities and activity coefficients (*Pure Appl. Chem.*, 1984, **56**, 567).

Quantities and units in clinical chemistry (*Pure Appl. Chem.*, 1979, **51**, 2451).

Quantities and units in clinical chemistry: nebulizer and flame properties in flame emission and absorption spectrometry (*Pure Appl. Chem.*, 1986, **58**, 1737).

List of quantities in clinical chemistry (*Pure Appl. Chem.*, 1979, **51**, 2481).

2.2.4 *Colloids and Surface Chemistry*

Definitions, terminology, and symbols in colloid and surface chemistry. I (*Pure Appl. Chem.*, 1972, **31**, 577). II, Heterogeneous catalysis (*Pure Appl. Chem.*, 1976, **46**, 71). Part 1.14: Light scattering (provisional) (*Pure Appl. Chem.*, 1983, **55**, 931).

Reporting experimental pressure-area data with film balances (*Pure Appl. Chem.*, 1985, **57**, 621).

Reporting physisorption data for gas/solid systems with special reference to the determination of surface area and porosity (*Pure Appl. Chem.*, 1985, **57**, 603).

Reporting data on adsorption from solution at the solid/solution interface (*Pure Appl. Chem.*, 1986, **58**, 967).

2.2.5 *Electrochemistry*

Nomenclature for transfer phenomena in electrolytic systems (*Pure Appl. Chem.*, 1981, **53**, 1827).

Electrode reaction orders, transfer coefficients, and rate constants—amplification of definitions and recommendations for publication of parameters (*Pure Appl. Chem.*, 1980, **52**, 233).

Classification and nomenclature of electroanalytical techniques (*Pure Appl. Chem.*, 1976, **45**, 81).

Recommendations for sign conventions and plotting of electrochemical data (*Pure Appl. Chem.*, 1976, **45**, 131).

Electrochemical nomenclature (*Pure Appl. Chem.*, 1974, **37**, 499).

Recommendations on reporting electrode potentials in non-aqueous solvents (*Pure Appl. Chem.*, 1984, **56**, 461).

Definition of pH scales, standard reference values, measurement of pH and related terminology (*Pure Appl. Chem.*, 1985, **57**, 531).

Interphases in systems of conducting phases (*Pure Appl. Chem.*, 1986, **58**, 437).

The absolute electrode potential: an explanatory note (*Pure Appl. Chem.*, 1986, **58**, 955).

Electrochemical corrosion nomenclature (*Pure Appl. Chem.*, 1989, **61**, 19).

2.2.6 *Kinetics*

Symbolism and terminology in chemical kinetics (provisional) (*Pure Appl. Chem.*, 1981, **53**, 753).

2.2.7 *Photochemistry*

Recommended standards for reporting photochemical data (*Pure Appl. Chem.*, 1984, **56**, 939).

Glossary of terms used in photochemistry (*Pure Appl. Chem.*, 1988, **60**, 1055).

2.2.8 *Quantum Chemistry*

Expression of results in quantum chemistry (*Pure Appl. Chem.*, 1978, **50**, 75).

2.2.9 *Reactions*

Nomenclature for organic chemical transformations (*Pure Appl. Chem.*, 1989, **61**, 725).

System for symbolic representation of reaction mechanisms (*Pure Appl. Chem.*, 1989, **61**, 23).

Detailed linear representation of reaction mechanisms (*Pure Appl. Chem.*, 1989, **61**, 57).

2.2.10 *Rheological Properties*

Selected definitions, terminology, and symbols for rheological properties (*Pure Appl. Chem.*, 1979, **51**, 1215).

2.2.11 *Spectroscopy*

Recommendations for publication of papers on methods of molecular absorption spectrophotometry in solution (*Pure Appl. Chem.*, 1978, **50**, 237).

Recommendations for the presentation of infrared absorption spectra in data collections. A, Condensed phases (*Pure Appl. Chem.*, 1978, **50**, 231).

Definition and symbolism of molecular force constants (*Pure Appl. Chem.*, 1978, **50**, 1709).

Nomenclature and conventions for reporting Mössbauer spectroscopic data (*Pure Appl. Chem.*, 1976, **45**, 211).

Recommendations for the presentation of NMR data for publication in chemical journals. A, Proton spectra (*Pure Appl. Chem.*, 1972, **29**, 625). B, Spectra from nuclei other than protons (*Pure Appl. Chem.*, 1976, **45**, 217).

Presentation of Raman spectra in data collections (*Pure Appl. Chem.*, 1981, **53**, 1879).

Names, symbols, definitions and units of quantities in optical spectroscopy (*Pure Appl. Chem.*, 1985, **57**, 105).

A descriptive classification of the electron spectroscopies (*Pure Appl. Chem.*, 1987, **59**, 1343).

Presentation of molecular parameter values for i.r. and Raman intensity (*Pure Appl. Chem.*, 1988, **60**, 1385).

2.2.12 *Thermodynamics*

A guide to procedures for the publication of thermodynamic data (*Pure Appl. Chem.*, 1972, **39**, 395).

Assignment and presentation of uncertainties of the numerical results of thermodynamic measurements (*Pure Appl. Chem.*, 1981, **53**, 1805).

Notation for states and processes; significance of the word 'standard' in chemical thermodynamics and remarks on commonly tabulated forms of thermodynamic functions (*Pure Appl. Chem.*, 1982, **54**, 1239).